

Ice Seasonality Investigation

Lake/Pond Freeze-Up Data Sheet

School Name: _____ Study Site: ICE- _____
 Observer Names: _____
 Date: Year: _____ Month: _____ Day: _____
 Local Time (hour:min): _____ Universal Time (hour:min): _____

General Freeze-Up Ice Observations:

Ice Cover:	
Estimate fraction of area covered by ice:	_____ %
Ice Cover Change:	
Changes in ice:	<input type="checkbox"/> None <input type="checkbox"/> Fractured <input type="checkbox"/> Flooding <input type="checkbox"/> Movement
Frost smoke?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Ice surface: (may choose more than one)	<input type="checkbox"/> Smooth <input type="checkbox"/> Rough <input type="checkbox"/> Blocky/Broken/Jumbled <input type="checkbox"/> Wet/Flooded <input type="checkbox"/> Holes/Leads <input type="checkbox"/> Bare (melting) <input type="checkbox"/> Ice jam
Snow on ice:	<input type="checkbox"/> None (cold) <input type="checkbox"/> New, patchy <input type="checkbox"/> New, continuous <input type="checkbox"/> Stable with new snow layer <input type="checkbox"/> Stable/No change <input type="checkbox"/> Wind redistributed <input type="checkbox"/> Icy crust <input type="checkbox"/> Melting/Wet <input type="checkbox"/> None (warm)
Snow on bank/shore:	<input type="checkbox"/> None <input type="checkbox"/> New, patchy <input type="checkbox"/> New, continuous <input type="checkbox"/> Stable with new snow layer <input type="checkbox"/> Stable/No change <input type="checkbox"/> Wind redistributed <input type="checkbox"/> Icy crust <input type="checkbox"/> Melting/Wet

Environmental Observations:

Cloud Cover:	<ul style="list-style-type: none"> <i>If Three-quarters or More of the Sky is Visible: (Check one)</i> <div style="display: flex; justify-content: space-around;"> No Clouds <input type="checkbox"/> 0%-No Clouds Clear <input type="checkbox"/> <10% Clouds Isolated <input type="checkbox"/> 10-25% Clouds Scattered <input type="checkbox"/> 25-50% Clouds </div> <div style="display: flex; justify-content: space-around;"> Broken <input type="checkbox"/> 50-90% Clouds Overcast <input type="checkbox"/> >90% Clouds </div> <i>If View of More than One-quarter of the Sky is Blocked:</i> Obscured <input type="checkbox"/> Check here <i>Why is the view of the sky blocked? (Check all that apply)</i> <input type="checkbox"/> Blowing Snow <input type="checkbox"/> Heavy Snow <input type="checkbox"/> Heavy Rain <input type="checkbox"/> Fog <input type="checkbox"/> Spray <input type="checkbox"/> Volcanic Ash <input type="checkbox"/> Smoke <input type="checkbox"/> Dust <input type="checkbox"/> Sand <input type="checkbox"/> Haze
Wind*:	<input type="checkbox"/> Calm (<0.3 m/s) <input type="checkbox"/> Light wind (0.3-5.5 m/s) <input type="checkbox"/> Windy (>5.5 m/s)
Precipitation type:	<input type="checkbox"/> None <input type="checkbox"/> Snow flurries <input type="checkbox"/> Snowing <input type="checkbox"/> Fog/Drizzle <input type="checkbox"/> Rain <input type="checkbox"/> Freezing rain

*See *Ice Seasonality Investigation Field Guide* for definitions.

Environmental Observation Comments:

Standard Photograph Set of Lake Ice Freeze-Up:

When you download the photos from your camera, rename them to follow the convention *study site ID_date_photo view* (so the format would be: *ICE-99_YYMMDD_XXXXXX* where *XXXXXX* is the name you chose for the photo view when you defined the site).

Enter the filename, and optional comments, for each photo here:

Photo 1:	ICE- _____
Comments: _____	
Photo 2:	ICE- _____
Comments: _____	
Photo 3:	ICE- _____
Comments: _____	
Photo 4:	ICE- _____
Comments: _____	
Photo 5:	ICE- _____
Comments: _____	
Photo 6:	ICE- _____
Comments: _____	

Optional Photographs of Lake Ice Freeze-Up:

Enter the filename of each photo and accompanying comments here:

Additional photo 1:	ICE- _____
Comments: _____	
Additional photo 2:	ICE- _____
Comments: _____	
Additional photo 3:	ICE- _____
Comments: _____	

Other Comments:
